

F20 User Manual

Thank you for purchasing F20 high resolution car video recorder. F20 features the dual-camera system for extra wide filming angles which is unique of its own kind and provides enhanced recording capability to users.

This manual describes the technical specification, setup and operation of F20 in detail. Please read this manual carefully and keep it for future reference. Hope F20 can meet your need and be the indispensable driving companion to you.

Certifications

F20 passes BSMI/CE/FCC certifications and is RoHS compliant.

Product Description

F20 is a dual-channel simultaneous video recording product

dedicated for the evolving need of car-use video recording market.

It features superior digital HD audio/video recording and high quality photo taking capability, high speed USB2.0 interface, and parallel battery charging and filming operation. Also, F20 is crafted with G-sensor and many other patented technologies which makes **F20 have wide application potential not just limited to car applications.**

Features of F20:

Dual channel simultaneous recording and displaying on screen

- G-Sensor When the gravity acceleration reaches 6g ($1g = 9.8m/sec^2$), F20 will automatically keep the images before and after the impact interval as undeletable file to preserve the evidence.
- SOS Emergency Button acts as the same as G-Sensor when pressed.

Each recorded file folder is automatically linked and merged to keep the integrity of images without losing any instant.

- 2.7" 16:9 HD display without distortion, both of the cameras can have 180° rotation
- H.264 image compression technique
- Day/Night filming mode switch: Press a button to switch the day/night mode to solve the over exposure issue during night time. By night mode, the tag of front car can be filmed clearly without problems.
- 30fps or 60fps smooth images with no delay or blur.
- Plug-'n-Play **HD PC CAMERA**
- Independent filming angle adjustment/rotation of the two cameras.
- IR LED for night vision
- Cyclic recording mode with no memory run out issue.
- Motion detection
- Automatic recording when the vehicle starts, charging while

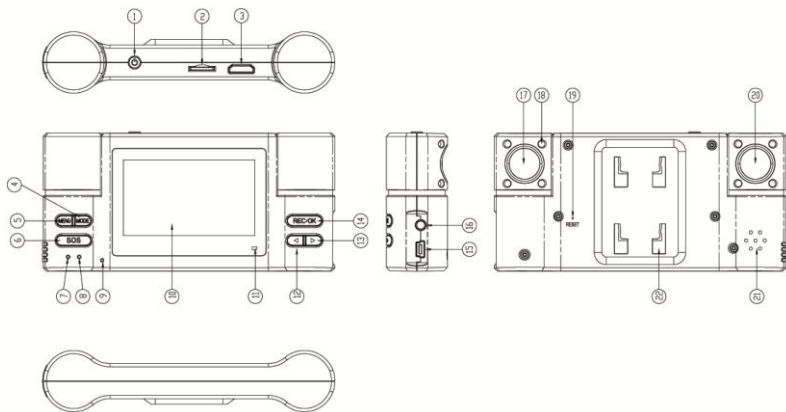
recording.

- HDMI and TV out supported
- Remote control supported

Technical Specifications:

Image sensor	2643CMOS WXGA HD sensor
Video resolution	480P/720P/720P_H
Language	Traditional & simplified Chinese , English , Russian, Japanese, Korean
LCD display	2.7" 16: 9 TFT
Memory	TF card up to 32GB
Focus range	12cm ~ ∞
Photo format	JPEG
Video format	MOV

Audio	Built in microphone and speaker
USB	USB2.0
Battery	Built-in 3.7V/ 600mAh lithium battery
Working temperature	0-65℃
Dimension	135x63x28.5mm (LxWxH)
Weight	125g
Accessories	USB cable, TV cable, remote controller, charger (for car), mounting frame, manual, HDMI cable(optional)



- 1.Power button 2.TF slot 3.HDMI port 4.MODE button
- 5.MENU button 6.SOS button 7.Charging indicator
- 8.Operation indicator 9.MIC 10.LCD display 11.remote sensor
- 12.Left button 13.Right button 14.REC/OK button
- 15.Micro USB port 16.TV OUT 17.Long range camera
- 18.Night vision IR LED 19.RESET button 20.Extra wide angle

camera

21.Speaker 22.Mounting position

Function Buttons:

POWER On and Off

MENU Option menu of each operation mode

MODE Switch operation mode and corresponding menu

REC/OK Start/pause/OK (for menu)

Left Button **Press it shortly to switch between day/night mode when standby or operating. Press it longer to turn on/off night vision IR LED. The status will display on LCD when the button released.**

Right Button Switch the camera to display

SOS Emergency button

Installation & Operation:

The installation is easy and flexible. The customer can put F20 on the front window with his/her preferred view angle. When the

adapter is plugged into the car's charger, F20 will start to work automatically when the car starts and switch off when the car is turned off.

Battery:

F20 is built in with a 600 mAh lithium battery. It will take about 90minutes to charge it completely in off state. The battery can be charged when F20 is in operation. The working current is about 380mA for normal and 580mA for night vision operation.

On/Off and screen saver:

1. Press the POWER button for 3 seconds to turn on/off F20. The display will show "Turning Off..." when turned off.
2. Press the POWER button shortly can turn on/off the LCD display for saving energy.

Note: If the message "Turning Off..." is not shown on the display, just the LDC display is turned off, not the F20.

Date/Time Setup:

Press the "MENU" button to enter setup mode, press the

“MODE” button to bring up the setup menu. Pick “Date/Time” option, use “MODE”, “Right”, “Left” buttons to adjust the right date and time. Press “OK” button to confirm and activate the settings.

Video Recording Mode:



- 1.Video is the default mode when powered up, the “” icon on the left upper corner will flash.
- 2.Press “REC” button to pause/resume the recording operation
- 3.Press and hold the Left button to turn on/off the night vision IR LED (taking affect when the button released).
- 4.Press the Left button to switch in between day/night recording mode.
- 5.Press the Right button to switch the camera displayed.
6. “H_HD” high resolution mode is preferred for the smooth filming during high speed motion.
7. In case of contingency, press “SOS” button to keep the video evidence from being overwritten.

Photo Mode:

Press “MODE” button once switches to photo taking mode. The upper left corner of the display will show  icon. There are three resolutions 1M,2M,and 3M for choice. Photo mode works only with the wide angle camera.

Playback Mode:

- 1.Press “MODE” to enter the playback mode to check the video images taken.
- 2.Press “MODE” will stop the playback.
- 3.Press “MENU” for delete option can delete the selected file.

Connection F20 to a PC via USB cable will have the following options shown.



- 1.USB_Disk press “OK” for USB back up operation
- 2.PC_Camera press “OK” for using F20 as a PC camera
- 3.REC_Mode press “OK” for normal video recording peration

IR LED for Night Vision

Press and hold the Left button for about 3 seconds to turn on/off the IR LED for night time filming purpose.

Menu and Mode

Menu	Mode
Resolution	480P/720P/720P_H

(Filming)	
Resolution (Photo)	1M/2M/3M
Filming Interval	2min/5min/10min/Off
Second Camera	Off/On
White Balance	Auto/Sunny/Fluorescence/Cloudy/Incandescence
Exposure	-3/-2/-1/0/1/2/3
Color Adjustment	None/Gray Scale/Negative/Classical/Light Green
Motion Detection	30sec/2min/5min/Off
Time Stamp	Off/On
Voice Recording	Off/On
Filming when Turned on	Off/On
Language	Simplified Chinese/Traditional Chinese/English/Russian/Japanese/Kore

	an
Frequency	50Hz/60Hz
Date & Time	/
Reformat	Confirm/Cancel
Default Setup	Confirm/Cancel
Software version	/